EDDY CURRENT RETARDER DEVICE

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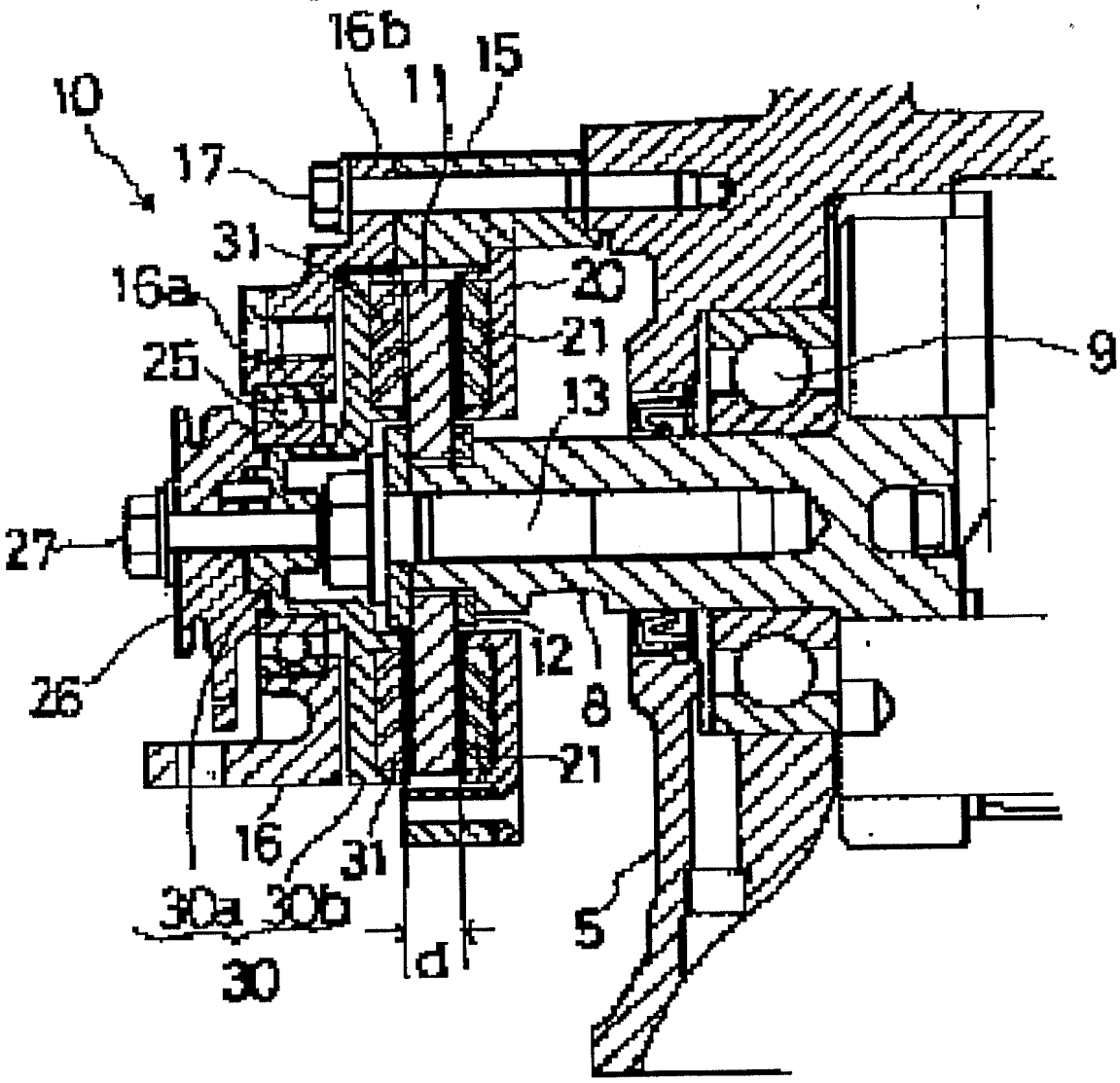
Equivalents:

Abstract

PROBLEM TO BE SOLVED: To simplify the structure of an eddy current retarder device and reduce the size and weight of the device by arranging magnets on both sides of a metallic disk which is integrally rotated with a rotating shaft and controlling the brak torque of the device by changing the polarities of the facing magnets from the same polarity to the opposite polarities by relatively rotating the facing magnets in the circumferential direction.
SOLUTION: Four permanent magnets 31 which are held by a magnet holder 30 in a state where the magnets 31 are arranged on the holder 30 at intervals D in the peripheral direction and rotated by a servo motor are counterposed to four permanent magnets 21 which is fixed to a magnet holder 20 in a state where the magnets 21 are arranged on the holder at the intervals D in the peripheral direction with a disk 11 which is integrally rotated with a crank shaft 8 in between. Therefore, the braking torque of a retarder device can be controlled easily, because the magnetic force passed through the disk 11 becomes stronger and the braking torque becomes stronger as the polarities of the facing magnets 21 and 31 change from the same polarity to opposite polarities. In addition, the structure of the device can be simplified and the size and weight of the device can be reduced.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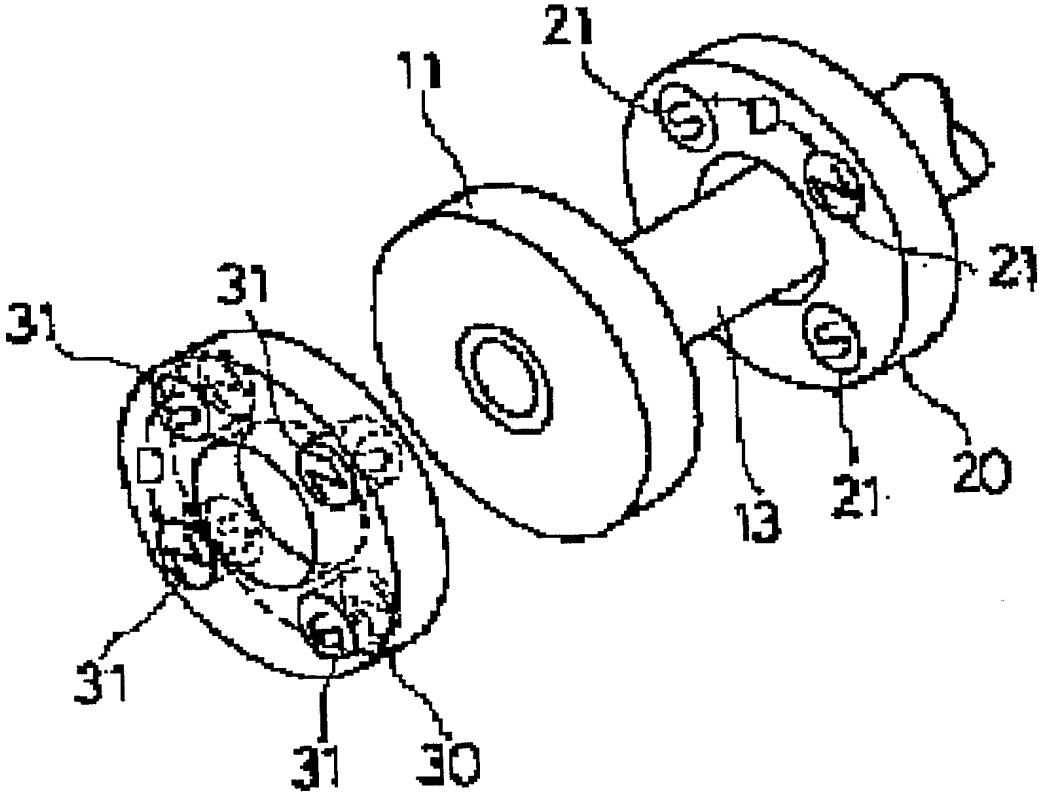
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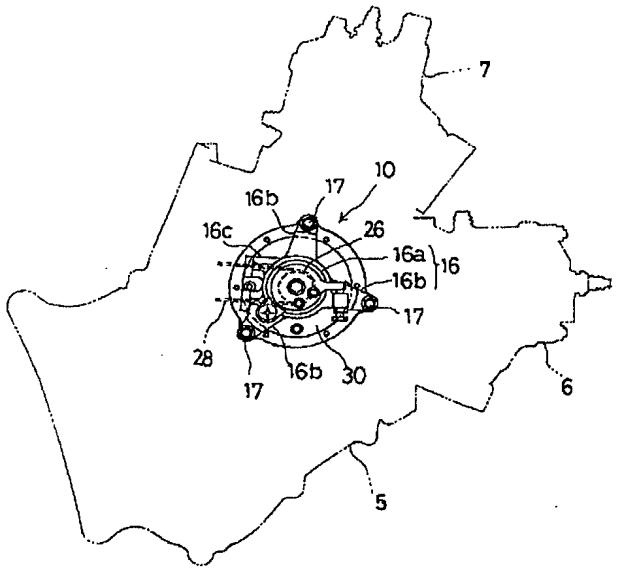
【図2】



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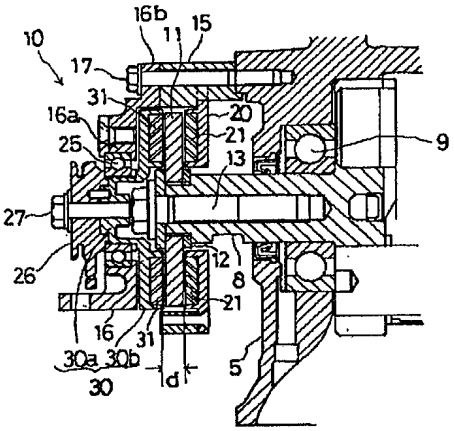

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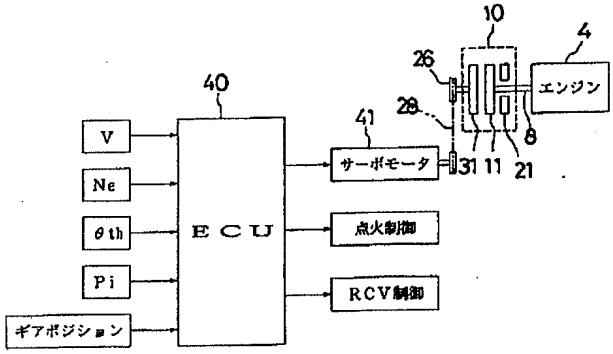

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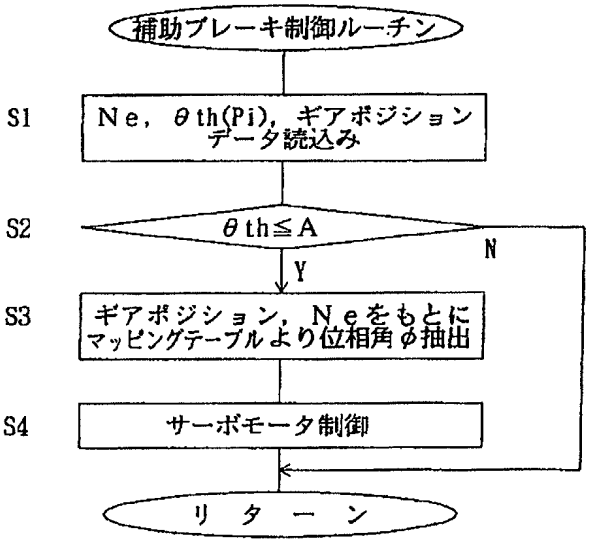

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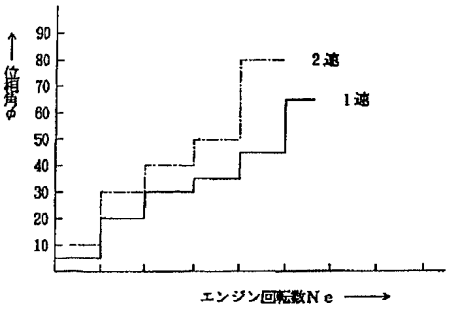
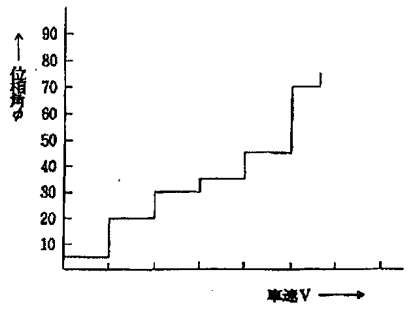


【図9】



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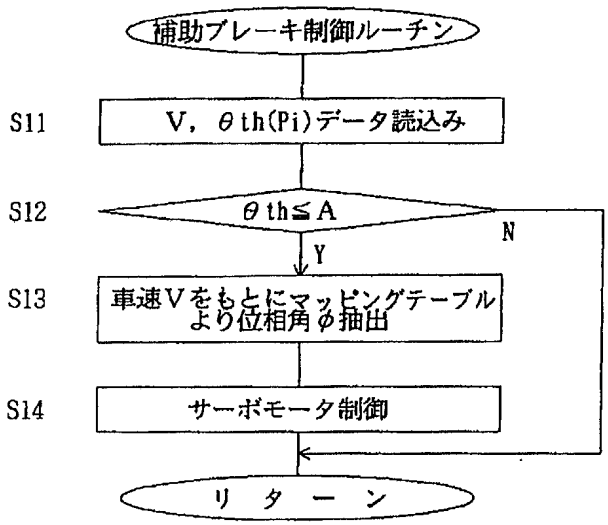

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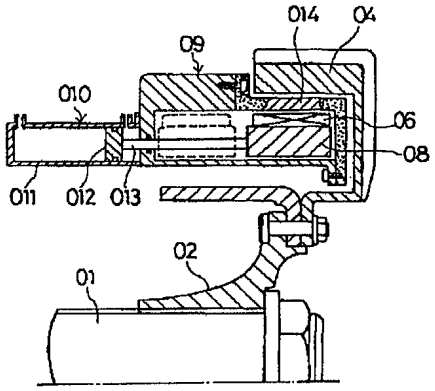

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